

L Number	Hits	Search Text	DB	Time stamp
2	435	386/94.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/15 12:43
3	1	"6490408"	USPAT; US-PGPUB; EPO; JPO	2004/10/15 11:19
4	296	386/94.ccls. and (@AD < "19980518" or @PRAD < "19980518" or @RLAD < "19980518")	USPAT; US-PGPUB; EPO; JPO	2004/10/15 12:45
5	280	386/94.ccls. and (@AD < "19980518" or @PRAD < "19980518")	USPAT; US-PGPUB; EPO; JPO	2004/10/15 13:09
6	232	(386/94.ccls. and (@AD < "19980518" or @PRAD < "19980518")) and reproduc\$3	USPAT; US-PGPUB; EPO; JPO	2004/10/15 13:10
7	114	((386/94.ccls. and (@AD < "19980518" or @PRAD < "19980518")) and reproduc\$3) and (rewrit\$4 or overwrit\$4 or (over near3 writ\$4))	USPAT; US-PGPUB; EPO; JPO	2004/10/15 13:10
9	1106	360/53.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/15 15:53
8	280	380/278.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/15 15:54
-	14	((recording and reproducing) and server and network) and (signal adj generat\$3)) and (writ\$3 adj data)	USPAT	2004/10/05 16:17
-	1	"5982977".PN.	USPAT	2002/10/08 10:56
-	18	(recording near3 reproducing adj2 apparatus) and server and network and terminal	USPAT	2002/10/08 16:11
-	6641	recording near3 reproducing adj2 apparatus	USPAT	2002/10/22 10:07
-	429	(recording near3 reproducing adj2 apparatus) and (signal adj2 generat\$3) and (writ\$3 adj2 data)	USPAT	2002/10/16 15:00
-	18	((recording near3 reproducing adj2 apparatus) and (signal adj2 generat\$3) and (writ\$3 adj2 data)) and permission	USPAT	2002/10/08 16:15
-	1	6298022.pn.	USPAT	2002/10/08 16:39
-	2967	download and (billing or charging or fee)	USPAT	2002/10/17 09:39
-	15	(download and (billing or charging or fee)) and pay-per	USPAT	2002/10/21 10:23
-	245	(overwrit\$3a or rewrit\$3) adj3 (header or index)	USPAT	2002/10/10 16:16
-	47	((overwrit\$3a or rewrit\$3) adj3 (header or index)) and recording and reproducing	USPAT	2002/10/10 16:16
-	101	((recording and reproducing) and server and network) and (signal adj generat\$3)	USPAT	2002/10/11 10:39
-	58	((recording and reproducing) and server and network) and (signal adj generat\$3)) and terminal	USPAT	2002/10/18 11:32
-	64	(recording near3 reproducing adj2 apparatus) and (signal adj2 generat\$3) and (writ\$3 adj2 data) and (table adj2 content)	USPAT	2002/10/18 11:33
-	5	(download and (billing or charging or fee)) and (recording near3 reproducing adj2 apparatus )	USPAT	2002/10/17 09:40
-	1	((append\$3 and audio and (table adj3 content)) and index) and (permission adj signal)	USPAT	2002/10/18 14:00
-	39	(billing or charging or fee) and pay-per	USPAT	2002/10/21 10:23
-	45	memory and ((index\$3 same (table adj2 content)) same updat\$3)	USPAT	2002/10/21 14:41
-	620	711/205.ccls. or 711/207.ccls. 711/221.ccls.	USPAT	2002/10/22 09:50
-	295	(711/205.ccls. or 711/207.ccls. 711/221.ccls.) and index	USPAT	2002/10/21 14:48
-	45	((711/205.ccls. or 711/207.ccls. 711/221.ccls.) and index) and (update same index)	USPAT	2002/10/21 14:44
-	7	(711/205.ccls. or 711/207.ccls. 711/221.ccls.) and (index adj information)	USPAT	2002/10/21 14:49
-	14	((append and audio and (table adj3 content)) and index) and recording and reproducing	USPAT	2002/10/18 13:59
-	1	5619570.pn.	USPAT	2002/10/22 09:21
-	17	"5619570"	USPAT	2002/10/22 09:43

Search History 10/15/04 3:59:15 PM Page 1

-	36	recording near3 reproducing adj2 apparatus and (\$2writ\$3 adj5 index)	USPAT	2003/04/10 14:28
-	131	(record\$3 near3 reproduc\$3 adj2 apparatus) and ((rewrit\$3 or writ\$3 or repair\$3 or arrang\$3 or rearrang\$3 or renew\$3) near4 (index or (table adj2 content)))	USPAT	2003/04/10 14:33
-	121	711/155.ccls.	USPAT	2003/04/10 14:32
-	46	711/139.ccls.	USPAT	2003/04/10 16:30
-	107	711/142.ccls.	USPAT	2003/04/10 14:32
-	82	(recording near3 reproduc\$3 adj2 apparatus) and ((rewrit\$3 or writing or repair\$3 or arrang\$3 or rearrang\$3 or renew\$3) near4 (index or (table adj2 content)))	USPAT	2003/04/10 14:50
-	29	(recording near3 reproduc\$3 adj2 apparatus) and ((rewrit\$3 or repair\$3 or rearrang\$3 or renew\$3) near4 (index or (table adj2 content)))	USPAT	2003/04/10 14:58
-	173	corrupt\$3 near3 (table or index\$3)	USPAT	2003/04/10 16:48
-	51	(corrupt\$3 near3 (table or index\$3)) and download\$3	USPAT; US-PGPUB	2003/04/10 17:01
-	157	corrupt\$3 near3 (data or file) near6 (replac\$3 or repair\$3 or fix\$3 or rewrit\$3)	USPAT	2003/04/10 16:52
-	13	(corrupt\$3 near3 (data or file) near6 (replac\$3 or repair\$3 or fix\$3 or rewrit\$3)) and download	USPAT	2003/04/10 16:52
-	966	reconstruct\$3 near4 (index\$3 or table)	USPAT; US-PGPUB	2003/04/10 17:01
-	36	(reconstruct\$3 near4 (index\$3 or table)) and (corrupt\$3 near5 (table or index\$3))	USPAT; US-PGPUB	2003/04/10 17:02
-	11	6067541.URPN.	USPAT	2003/10/23 12:40
-	2	6067541.URPN. and (management near3 data)	USPAT; US-PGPUB; EPO; JPO	2003/10/23 12:47
-	37	(US-6067541-\$ or US-6188834-\$ or US-6018609-\$ or US-5574570-\$ or US-5619570-\$ or US-5400186-\$ or US-5038231-\$ or US-6282611-\$ or US-6243330-\$ or US-6151286-\$ or US-5959948-\$ or US-6324334-\$ or US-6408332-\$ or US-5974223-\$ or US-6064795-\$ or US-6078988-\$ or US-6473099-\$ or US-6148138-\$ or US-5610723-\$ or US-5440529-\$ or US-5379153-\$ or US-5654747-\$ or US-5619247-\$ or US-5999354-\$ or US-5907444-\$ or US-5926607-\$).did. or (US-5442768-\$ or US-5432646-\$ or US-6338139-\$ or US-5654516-\$ or US-6327417-\$ or US-5912867-\$ or US-5870710-\$ or US-6516337-\$ or US-6104730-\$ or US-5696695-\$ or US-6339790-\$).did.	USPAT	2003/10/23 12:47
-	13	((US-6067541-\$ or US-6188834-\$ or US-6018609-\$ or US-5574570-\$ or US-5619570-\$ or US-5400186-\$ or US-5038231-\$ or US-6282611-\$ or US-6243330-\$ or US-6151286-\$ or US-5959948-\$ or US-6324334-\$ or US-6408332-\$ or US-5974223-\$ or US-6064795-\$ or US-6078988-\$ or US-6473099-\$ or US-6148138-\$ or US-5610723-\$ or US-5440529-\$ or US-5379153-\$ or US-5654747-\$ or US-5619247-\$ or US-5999354-\$ or US-5907444-\$ or US-5926607-\$).did. or (US-5442768-\$ or US-5432646-\$ or US-6338139-\$ or US-5654516-\$ or US-6327417-\$ or US-5912867-\$ or US-5870710-\$ or US-6516337-\$ or US-6104730-\$ or US-5696695-\$ or US-6339790-\$).did.) and (management near3 data)	USPAT; US-PGPUB; EPO; JPO	2003/10/23 12:47

-	37	(US-6516337-\$ or US-6104730-\$ or US-5610723-\$ or US-5440529-\$ or US-6148138-\$ or US-5379153-\$ or US-5696695-\$ or US-5619247-\$ or US-5654747-\$ or US-5999354-\$ or US-5907444-\$ or US-5926607-\$ or US-5432646-\$ or US-5442768-\$ or US-6473099-\$ or US-6338139-\$ or US-5400186-\$ or US-5038231-\$ or US-5654516-\$ or US-6067541-\$ or US-6339790-\$ or US-5912867-\$ or US-6327417-\$ or US-5870710-\$ or US-5619570-\$ or US-5574570-\$).did. or (US-6188834-\$ or US-6018609-\$ or US-6243330-\$ or US-6282611-\$ or US-5959948-\$ or US-6151286-\$ or US-6408332-\$ or US-6064795-\$ or US-6078988-\$ or US-6324334-\$ or US-5974223-\$).did.	USPAT	2004/10/01 13:58
-	3	((US-6516337-\$ or US-6104730-\$ or US-5610723-\$ or US-5440529-\$ or US-6148138-\$ or US-5379153-\$ or US-5696695-\$ or US-5619247-\$ or US-5654747-\$ or US-5999354-\$ or US-5907444-\$ or US-5926607-\$ or US-5432646-\$ or US-5442768-\$ or US-6473099-\$ or US-6338139-\$ or US-5400186-\$ or US-5038231-\$ or US-5654516-\$ or US-6067541-\$ or US-6339790-\$ or US-5912867-\$ or US-6327417-\$ or US-5870710-\$ or US-5619570-\$ or US-5574570-\$).did. or (US-6188834-\$ or US-6018609-\$ or US-6243330-\$ or US-6282611-\$ or US-5959948-\$ or US-6151286-\$ or US-6408332-\$ or US-6064795-\$ or US-6078988-\$ or US-6324334-\$ or US-5974223-\$).did.) and hybrid near3 disc	USPAT; US-PGPUB; EPO; JPO	2004/10/01 13:59
-	1	hybrid near4 disc and reproduction same rewriteable	USPAT; US-PGPUB; EPO; JPO	2004/10/01 14:05
-	792	hybrid near3 disc	USPAT; US-PGPUB; EPO; JPO	2004/10/04 10:52
-	19	(hybrid near3 disc) and rewriteable	USPAT; US-PGPUB; EPO; JPO	2004/10/04 10:52
-	4	5701282.URPN.	USPAT	2004/10/04 10:56
-	9	5617383.URPN.	USPAT	2004/10/04 10:56
-	2559	rewritable same reproduc\$5	USPAT; US-PGPUB; EPO; JPO	2004/10/04 11:05
-	28	(hybrid near3 disc) and (rewritable same reproduc\$5)	USPAT; US-PGPUB; EPO; JPO	2004/10/04 11:05
-	13958	watermark\$3 or (water near3 mark\$3)	USPAT; US-PGPUB; EPO; JPO	2004/10/05 16:19
-	62	(watermark\$3 or (water near3 mark\$3)) and 360/\$4.ccls.	USPAT; US-PGPUB; EPO; JPO	2004/10/05 16:20
-	6	(watermark\$3 or (water near3 mark\$3)) and hybrid near3 disc	USPAT; US-PGPUB; EPO; JPO	2004/10/05 16:21

Set	Items	Description
S1	180993	(COMPACT OR OPTICAL OR LASER OR DIGITAL OR HYBRID) (2W) (DISK? OR DISC?) OR VIDEODISC? OR CD OR CD()ROM OR CDROM OR DVD OR CD()R OR CD()RW OR CD OR CDROM OR CD()ROM
S2	1996	(INCOMPLETE OR PRESTORED OR NON()WORKING OR NONWORKING OR - PARTIAL OR SCRAMBLED OR IMPERFECT?) (2N) (INDEX? OR INDICES OR - PLAYLIST OR PLAY()LIST OR TOC OR TABLE()CONTENT? OR SEQUENCE - OR POINTER?)
S3	4961145	SEND? OR OUTPUT? OR TRANSFER? OR TRANSMISSION OR TRANSMIT? OR TRANSFER? OR COMMUNICATE? OR CONVEY?
S4	950639	SERVER? OR STATION OR PROCESSOR? OR HOST? OR PROVIDER? (N) R-ESOURCE? OR REPOSITOR? OR REMOTE()STORAGE OR NODE?
S5	5386189	OVERWRITE? OR OVER()WRITE? OR RECORD OR DOWNLOAD? OR RECEI-V? OR UPLOAD? (DOWN OR UP) ()LOAD? OR WRITE? OR WRITING OR COPY OR COPIES OR INPUT? OR OUTPUT? OR READ OR READING OR LOAD?
S6	4353	(PERFECT? OR COMPLET? OR ABSOLUT? OR ENTIRE? OR WHOLE) (2N) - (INDEX? OR INDICES OR PLAYLIST OR PLAY()LIST OR TOC OR TABLE(-)CONTENT? OR SEQUENCE OR POINTER?)
S7	20	S1 AND S2
S8	124	S3 AND S2 AND S4
S9	9	S8 AND S5 AND S6
S10	11	S8 AND S6
S11	26	S1 AND U()TOC
S12	13456	MD OR MUSIC()DATA
S13	1996	S13 OR S14 OR S2
S14	66	S13 AND S5 AND S6
S15	114	S7 OR S9 OR S10 OR S11 OR S14
S16	35	S15 AND IC=G11B?

File 347:JAPIO Nov 1976-2004/Jun(Updated 041004)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200465

(c) 2004 Thomson Derwent

on an access point of a ~~partial sequence~~ among one sequence is recorded on a first track 1 of a video CD. When an I picture does not exist in an access point while starting a reproduction from the access point of the ~~partial sequence~~, the recording position of an I picture in the vicinity of that point is detected and a decoding process of moving image data is started from the detected recording position.

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16/5/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06169365 \*\*Image available\*\*  
DEVICE AND METHOD FOR DIGITAL SIGNAL RECORDING

PUB. NO.: 11-110912 [JP 11110912 A]  
PUBLISHED: April 23, 1999 (19990423)  
INVENTOR(s): TAKAKU YOSHIYUKI  
AKIYAMA MOTOHIKO  
YAMAGUCHI HIROSHI  
APPLICANT(s): SONY CORP  
APPL. NO.: 09-266396 [JP 97266396]  
FILED: September 30, 1997 (19970930)  
INTL CLASS: G11B-020/10 ; G11B-027/034

#### ABSTRACT

PROBLEM TO BE SOLVED: To simplify the inputting operations of the character information related to a program and to simplify the plural character information inputs having different character forms.

SOLUTION: A remote control section 100 transmits reproducing start commands to the CD player and the MD recorder of an audio system 120. When a user inputs the character information related to the titles of each program recorded on the MD recorder, a mode is provided to refer to the CD text from the CD player. In the referring mode, a request is made to transmit the CD text and the text received from the CD player is read (a step S4). Then, changes are added, if required, to the text (a step S6) and the character information is transmitted to the MD recorder (a step S7). The MD recorder takes in the received character information into a memory and the information is written into the U - TOC area of the MD (a step S8).

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16/5/9 (Item 9 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05360048 \*\*Image available\*\*  
RECORDER

PUB. NO.: 08-315548 [JP 8315548 A]  
PUBLISHED: November 29, 1996 (19961129)  
INVENTOR(s): HISAMATSU NOBUAKI  
TOGASHI RYUICHIRO  
KITSUKOUJI HIROYUKI  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 07-135671 [JP 95135671]  
FILED: May 11, 1995 (19950511)  
INTL CLASS: [6] G11B-027/00 ; G11B-007/00 ; G11B-020/10  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R102 (APPLIED ELECTRONICS -- Video Disk  
Recorders, VDR); R116 (ELECTRONIC MATERIALS -- Light Emitting  
Diodes, LED); R131 (INFORMATION PROCESSING -- Microcomputers

& Microprocessors); R138 (APPLIED ELECTRONICS -- Vertical  
Magnetic & Photomagnetic Recording)

ABSTRACT

PURPOSE: To leave only the valid information unit on a recording medium by setting whether an information unit (track) is rendered valid or invalid through user operation when input information (voice signal) is being recorded on the recording medium.

CONSTITUTION: During reproduction of a **compact disc (CD)**, reproduced speech is recorded automatically on a mini-disc(MD). When a desired melody is found during reproduction of six melodies (track #1-#6) from a **CD**, for example, key operation is performed and H is set in the flag of track TK2, 5 on the MD for which the key operation is performed at the end of reproduction as shown on Figure (d). Management information **U - TOC** recorded on the MD is then updated and the track of flag H is left but the track of flag L is erased as shown on Figure (e) and the track number is rearranged. With such arrangement, a user can leave only the desired information easily on the recording medium.

16/5/10 (Item 10 from file: 347)

DIALOG(R)File 347:JAPIO

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05294288 \*\*Image available\*\*

RECORDING/REPRODUCING DEVICE

PUB. NO.: 08-249788 [JP 8249788 A]

PUBLISHED: September 27, 1996 (19960927)

INVENTOR(s): KATAI RYOICHI

APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 07-079803 [JP 9579803]

FILED: March 10, 1995 (19950310)

INTL CLASS: [6] **G11B-019/00 ; G11B-011/10 ; G11B-019/02**

JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)

JAPIO KEYWORD: R002 (LASERS); R011 (LIQUID CRYSTALS); R131 (INFORMATION  
PROCESSING -- Microcomputers & Microprocessors); R138  
(APPLIED ELECTRONICS -- Vertical Magnetic & Photomagnetic  
Recording)

ABSTRACT

PURPOSE: To reduce the power consumption and to contrive miniaturization and light weight of an **optical disk** player such as a minidisk player, etc.

CONSTITUTION: Management information is recorded in a **U - TOC** area by moving an optical pickup 4 into the **U - TOC** area at the time of finishing or stopping recording. At this time, a switch circuit 41 is turned off, so as to cut off the supply of a power source to a circuit part concerning a sound signal processing, such as a conversion part 14, an encoder/decoder part 10, a RAM 12 and amplifiers 17, 22 and 23, etc. Thus, the power consumption at the time of writing the management information is reduced, and the overall power consumption is reduced, and then the miniaturization and weight reduction can be contrived.

16/5/11 (Item 11 from file: 347)

DIALOG(R)File 347:JAPIO

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04991465 \*\*Image available\*\*

REPRODUCING METHOD FOR AUDIO INFORMATION AND MOVING PICTURE INFORMATION

PUB. NO.: 07-284065 [JP 7284065 A]

PUBLISHED: October 27, 1995 (19951027)

INVENTOR(s): NAKAMURA JUNICHI  
TOMIZAWA KENJI  
MACHIGUCHI YOSHIHIRO  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-093145 [JP 9493145]  
FILED: April 06, 1994 (19940406)  
INTL CLASS: [6] H04N-005/93; G11B-020/10 ; G11B-020/12 ; G11B-020/12 ;  
G11B-027/10 ; H04N-005/765; H04N-005/781; H04N-005/92  
JAPIO CLASS: 44.6 (COMMUNICATION -- Television); 30.2 (MISCELLANEOUS GOODS  
-- Sports & Recreation); 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R102 (APPLIED ELECTRONICS -- Video Disk Recorders, VDR); R131  
(INFORMATION PROCESSING -- Microcomputers & Microprocessors)

#### ABSTRACT

PURPOSE: To reproduce audio and video information from the specific part of a sequence (music) by using the access point information of a **partial sequence** recorded on the required track of a video **CD** .

CONSTITUTION: The respective sequences composed of moving picture information and audio information for the respective music are recorded in the video **CD** 1 and the access point information of the partial sequences for the respective sequences is recorded on the first track of the **CD** 1. When the access point information is used, the position of the desired specific part of the sequence is detected and the audio and moving picture video information from the desired part of the sequence is easily and surely outputted.

16/5/12 (Item 12 from file: 347)

DIALOG(R) File 347:JAPIO

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04991464 \*\*Image available\*\*

RECORDING METHOD FOR AUDIO INFORMATION AND MOVING PICTURE INFORMATION AND ITS RECORDING MEDIUM

PUB. NO.: 07-284064 [JP 7284064 A]  
PUBLISHED: October 27, 1995 (19951027)  
INVENTOR(s): NAKAMURA JUNICHI  
TOMIZAWA KENJI  
MACHIGUCHI YOSHIHIRO  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-093142 [JP 9493142]  
FILED: April 06, 1994 (19940406)  
INTL CLASS: [6] H04N-005/92; G11B-020/10 ; G11B-020/12 ; G11B-020/12 ;  
G11B-027/10 ; H04N-005/91  
JAPIO CLASS: 44.6 (COMMUNICATION -- Television); 30.2 (MISCELLANEOUS GOODS  
-- Sports & Recreation); 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)

#### ABSTRACT

PURPOSE: To easily perform the audio and video reproduction of a desired part in a sequence by recording the sequence of a required format provided with access point information or the like and reproducing it.

CONSTITUTION: The sequence specified in a key input part 16 is read from a disk 1 and processed in a **CD - ROM** decoder 13 and moving picture video signals are outputted through an MPEG video decoder 31 and an NTSC encoder 34, etc. Simultaneously, audio data are outputted from a mixing circuit 23 along with audio from a microphone 24 through an MPEG audio decoder 21 or the like. One sequence recorded in the disk 1 is provided with the audio information including a prelude and a climax part, etc., and access points indicating the start of a **partial sequence** or the like and required compressed moving picture information is recorded for respective

sub-sequences corresponding to the partial sequences of the audio. When the access points are used, the audio and video reproduction of the desired part in the sequence is performed.

16/5/13 (Item 13 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04793005 \*\*Image available\*\*  
DATA STRUCTURE, RECORDING MEDIUM AND DISK DEVICE

PUB. NO.: 07-085605 [JP 7085605 A]  
PUBLISHED: March 31, 1995 (19950331)  
INVENTOR(s): YOKOTA TEPPEI  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-137807 [JP 94137807]  
FILED: May 30, 1994 (19940530)  
INTL CLASS: [6] G11B-020/12 ; G11B-020/10 ; H04N-005/7826; H04N-005/91  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment); 44.6 (COMMUNICATION --  
Television)  
JAPIO KEYWORD: R002 (LASERS); R102 (APPLIED ELECTRONICS -- Video Disk  
Recorders, VDR); R131 (INFORMATION PROCESSING --  
Microcomputers & Microprocessors); R138 (APPLIED ELECTRONICS  
-- Vertical Magnetic & Photomagnetic Recording)

#### ABSTRACT

PURPOSE: To record and reproduce player/recorder corresponding to respective data with either one of audio or audio/video by providing first and second management data means.

CONSTITUTION: When recording/reproducing operations are carried out for the optical disk 1 of a device dealing with audio and video, based on the management information of P-TOC, U(user)-TOC or the like record on the disk the address of a segment is discriminated by a system controller 11 and this management information is held by a buffer RAM 13. The management information of a U - TOC sector 0 is used when only audio data is recorded/reproduced, and the management information of the other U - TOC sectors is used when audio and video data are simultaneously recorded/reproduced. Further, the recording/reproducing device for audio is constituted so that a circuit part relating to addition of video data is excluded and its recording/reproducing operations are carried out by the management information of the U - TOC sector 0.

16/5/14 (Item 14 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04737781 \*\*Image available\*\*  
RECORDER OR PLAYER

PUB. NO.: 06-208781 [JP 6208781 A]  
PUBLISHED: July 26, 1994 (19940726)  
INVENTOR(s): TAKEZAWA MASAYUKI  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-151130 [JP 92151130]  
FILED: May 20, 1992 (19920520)  
INTL CLASS: [5] G11B-027/10 ; G11B-027/00  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R131 (INFORMATION PROCESSING -- Microcomputers  
& Microprocessors); R138 (APPLIED ELECTRONICS -- Vertical  
Magnetic & Photomagnetic Recording)

#### ABSTRACT



PURPOSE: To allow easy calculation of remaining recordable time, recordable number of melodies, and playing time of each melody by summing the data length of segment shown on all parts tables coupled through link information and expressing the total data length in terms of time thereby calculating the operating time.

CONSTITUTION: When a magneto- **optical disc** 1 is loaded, TOC information is read in and stored in a TOC memory. When a user requests display of recordable time through an operation input section, a system controller 11 processes a routine automatically using **U - TOC** data. At first, a total value (sum) is prepared and reset to an initial value 0. Subsequently, data is read out from a corresponding table designation data P-FRA and the data is set as a variable (i). i=(00) represents 0 remaining recording time. If (i) is not 0, segment length recorded on a parts table is added to the variable (sum). The link information is set as (i) and the total data length of segment is added to the (sum). When i=0, total data length of empty data area is expressed in terms of time thus determining a recordable time.

16/5/15 (Item 15 from file: 347)

DIALOG(R)File 347:JAPIO

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04666282 \*\*Image available\*\*

MAGNETO- **OPTICAL DISK** RECORDING AND REPRODUCING DEVICE

PUB. NO.: 06-338182 [JP 6338182 A]

PUBLISHED: December 06, 1994 (19941206)

INVENTOR(s): GOTOU SOUJIYU

APPLICANT(s): KENWOOD CORP [000359] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 05-151194 [JP 93151194]

FILED: May 28, 1993 (19930528)

INTL CLASS: [5] **G11B-027/34 ; G11B-011/10 ; G11B-027/10**

JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)

JAPIO KEYWORD: R002 (LASERS); R102 (APPLIED ELECTRONICS -- Video Disk

Recorders, VDR); R131 (INFORMATION PROCESSING --

Microcomputers & Microprocessors); R138 (APPLIED ELECTRONICS

-- Vertical Magnetic & Photomagnetic Recording)

#### ABSTRACT

PURPOSE: To make the names of disks to be used for recording, character codes, such as the names of pieces of musics, etc., or recording sectors in a **U - TOC** easily recognizable and, at the same time, to arbitrarily designate them and, when some of them are already designated, to input the already designated ones by using character codes.

CONSTITUTION: When a disk is loaded, the kind of the characters recorded on the disk is displayed on a displaying section 11. At the time of inputting the characters to a **U - TOC**, already recorded or inputted character codes are preferentially inputted. The input of codes preferentially set in such a way can be set to different ones by using a character setting keys 19. The key 19a is used for setting the input of ASCII codes to the sector 1 of the **U - TOC** and the setting key 19b is used for setting the input of shift JIS codes to the sector 4 of the **U - TOC**. The setting key 19c is used for setting the input of ISO-8859-1 codes to the sector 4 of the **U - TOC**.

16/5/16 (Item 16 from file: 347)

DIALOG(R)File 347:JAPIO

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04642551 \*\*Image available\*\*

RECORDING AND REPRODUCING DEVICE OF MAGNETO- **OPTICAL DISK**

PUB. NO.: 06-314451 [JP 6314451 A]  
PUBLISHED: November 08, 1994 (19941108)  
INVENTOR(s): GOTOU SOUJIYU  
APPLICANT(s): KENWOOD CORP [000359] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-128120 [JP 93128120]  
FILED: April 30, 1993 (19930430)  
INTL CLASS: [5] G11B-011/10 ; G11B-020/00  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R102 (APPLIED ELECTRONICS -- Video Disk  
Recorders, VDR); R131 (INFORMATION PROCESSING --  
Microcomputers & Microprocessors); R138 (APPLIED ELECTRONICS  
-- Vertical Magnetic & Photomagnetic Recording)

#### ABSTRACT

PURPOSE: To attain an inexpensive sound recording with timer by providing a memory to store the information controlling the recorded information and making this memory to an electrically erasable nonvolatile memory or a memory capable of electrically backing up.

CONSTITUTION: When the power is supplied under the state of minidisk loading, the device is put in the stopping state by a microcomputer 6. In the case the recording is specified by the setting of a timer switch 9, a U - TOC information before the power is turned off is read out from a static RAM 7 by the computer 6, and the recording to a recordable area is started. When the power is turned off in the recording time, a signal of voltage drop is received from a power interruption detecting circuit 10, and the contents recorded up to that time are written into the RAM 7 by the computer 6, then the operation is finished. The contents of the U - TOC are written into a dynamic RAM 3 before an ejection of the disk is operated by the supplied power. The data written into the RAM 3 are sent to an EFM recording part 1 and recorded on the U - TOC area of the mini-disk.

16/5/17 (Item 17 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

04518746 \*\*Image available\*\*  
DUBBING APPARATUS ONTO OPTICAL DISK

PUB. NO.: 06-162646 [JP 6162646 A]  
PUBLISHED: June 10, 1994 (19940610)  
INVENTOR(s): HIRANUMA SATOSHI  
APPLICANT(s): KENWOOD CORP [000359] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-333571 [JP 92333571]  
FILED: November 19, 1992 (19921119)  
INTL CLASS: [5] G11B-019/02 ; G11B-027/034  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R131 (INFORMATION PROCESSING -- Microcomputers  
& Microprocessors)  
JOURNAL: Section: P, Section No. 1800, Vol. 18, No. 494, Pg. 117,  
September 14, 1994 (19940914)

#### ABSTRACT

PURPOSE: To record automatically additional information on individual pieces of music onto an optical disk.

CONSTITUTION: A digital sound signal obtained by reproducing a minidisk is sent to an MD system 8 by a digital sound signal line 5, and it is recorded on a minidisk. In addition, additional information on titles of individual pieces of music is sent to an MD control computer 7 by a serial communication line 6, and it is stored in a RAM which has been built in it and which stores U - TOC information. Before the U - TOC information in the RAM is discharged from the MD system 8, it is stored in the minidisk.

16/5/18 (Item 18 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

04506732 \*\*Image available\*\*  
MAGNETO-OPTICAL DIK RECORDING AND REPRODUCING DEVICE

PUB. NO.: 06-150632 [JP 6150632 A]  
PUBLISHED: May 31, 1994 (19940531)  
INVENTOR(s): GOTOU SOUJIYU  
APPLICANT(s): KENWOOD CORP [000359] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-316445 [JP 92316445]  
FILED: October 30, 1992 (19921030)  
INTL CLASS: [5] G11B-027/10 ; G11B-011/10 ; G11B-027/00  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R102 (APPLIED ELECTRONICS -- Video Disk  
Recorders, VDR); R131 (INFORMATION PROCESSING --  
Microcomputers & Microprocessors); R138 (APPLIED ELECTRONICS  
-- Vertical Magnetic & Photomagnetic Recording)  
JOURNAL: Section: P, Section No. 1795, Vol. 18, No. 473, Pg. 93,  
September 02, 1994 (19940902)

#### ABSTRACT

PURPOSE: To prevent miserasing of music of a magneto-optical disk  
capable of overwriting.

CONSTITUTION: When an erasing key of a key matrix 6 is pressed during a  
performance of an optional TNO (track number), management information of  
this TNO and disk added information are erased out of a RAM 8 stored with a  
U - TOC (user's TOC area) by a controller 3, and other TNOs are  
renumbered to change the storage contents of the RAM 8. When a tray opening  
key of the key matrix 6 is pressed, a sound stopping command is issued to  
an MD recording and reproducing circuit 2 by the controller 3, and TNO  
management information and TNO added information of the RAM 8 are moved to  
a RAM 4, and are recorded in a prescribed U - TOC recording area of a  
minidisk 1a, and afterward, a disk cartridge is ejected to the MD recording  
and reproducing circuit 2.

16/5/19 (Item 19 from file: 347)  
DIALOG(R) File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

04445611 \*\*Image available\*\*  
METHOD FOR RECORDING DATA

PUB. NO.: 06-089511 [JP 6089511 A]  
PUBLISHED: March 29, 1994 (19940329)  
INVENTOR(s): NAKAZAWA TETSUJI  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-265496 [JP 92265496]  
FILED: September 08, 1992 (19920908)  
INTL CLASS: [5] G11B-020/18 ; G11B-020/18 ; G11B-020/10  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R131 (INFORMATION PROCESSING -- Microcomputers  
& Microprocessors); R138 (APPLIED ELECTRONICS -- Vertical  
Magnetic & Photomagnetic Recording)  
JOURNAL: Section: P, Section No. 1764, Vol. 18, No. 353, Pg. 94, July  
04, 1994 (19940704)

#### ABSTRACT

PURPOSE: To prevent previously recorded data from being erroneously  
destructed by performing error processing for the recorded data when  
control information contains abnormality.

CONSTITUTION: By an EFM decoder 31 in a decoder 21, **U - TOC** data supplied from an amplifier 5 is EFM-modulated, and is outputted to a CIRC decoder 32. By the CIRC decoder 32, when the EFM-modulated data contains an error, it is detected, and when it is correctable, it is corrected. Then, when an incorrigible error exists, a flag is outputted to a CPU 7. The CPU 7 is informed of the presence of the incorrigible error and a magneto- **optical disk** is ejected.

16/5/20 (Item 20 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

04333805 \*\*Image available\*\*  
REPRODUCING DEVICE

PUB. NO.: 05-325505 [JP 5325505 A]  
PUBLISHED: December 10, 1993 (19931210)  
INVENTOR(s): TAKEZAWA MASAYUKI  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-151131 [JP 92151131]  
FILED: May 20, 1992 (19920520)  
INTL CLASS: [5] **G11B-027/10 ; G11B-007/00 ; G11B-020/12 ; G11B-027/00**

JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment)  
JAPIO KEYWORD: R002 (LASERS); R011 (LIQUID CRYSTALS); R102 (APPLIED ELECTRONICS -- Video Disk Recorders, VDR); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors); R138 (APPLIED ELECTRONICS -- Vertical Magnetic & Photomagnetic Recording)  
JOURNAL: Section: P, Section No. 1711, Vol. 18, No. 159, Pg. 93, March 16, 1994 (19940316)

#### ABSTRACT

PURPOSE: To easily perform normal and particular reproducing operations in the forward and reverse directions by producing reproducing progressing data using data recorded in a user TOC area of a recording medium as access information at the time of recording and reproducing data.

CONSTITUTION: When a magneto- **optical disk** 1 is loaded, TOC information is read, and **U - TOC** (user TOC) data is also read in a TOC memory 21, and then an S-table (sequence table) is produced at the required time by a system controller 11 based on the **U - TOC** data. First of all, an Stable area 11AS is secured in a work RAM 11A. In this area, parts table numbers are stored in turn from the first piece of music to the last piece of music on the **U - TOC**. At this last end, 00 is set as end data. The reproducing operation is performed by the controller 11 using this S-table. During the reproducing operation, cuereproducing or review-reproducing can be performed by the user.

16/5/24 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015083832 \*\*Image available\*\*  
WPI Acc No: 2003-144350/200314  
Related WPI Acc No: 1997-039958  
XRPX Acc No: N03-114898

**Optical disk player e.g. for compact disk , reproduces recorded data based on information reproduced from specified recording area**

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002373474	A	20021226	JP 95102121	A	19950426	200314 B
			JP 2002120141	A	19950426	

Priority Applications (No Type Date): JP 95102121 A 19950426; JP 2002120141  
A 19950426

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002373474	A		9	G11B-020/12	Div ex application JP 95102121

Abstract (Basic): JP 2002373474 A

NOVELTY - A reproduction unit reproduces information from the U -  
TOC area of a disk, based on which recorded data are reproduced.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for  
information reproducing method.

USE - **Optical disk** player e.g. for **compact disk (CD)**,  
mini disk (MD).

ADVANTAGE - Enables effective utilization of the recording area of  
the disk.

DESCRIPTION OF DRAWING(S) - The figure illustrates the information  
recording method. (Drawing includes non-English language text).

pp; 9 DwgNo 1/11

Title Terms: OPTICAL; DISC; PLAY; COMPACT; DISC; REPRODUCE; RECORD; DATA;  
BASED; INFORMATION; REPRODUCE; SPECIFIED; RECORD; AREA

Derwent Class: T03; W04

International Patent Class (Main): **G11B-020/12**

International Patent Class (Additional): **G11B-020/10 ; G11B-027/00 ;**

**G11B-027/10**

File Segment: EPI

16/5/28 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012257271 \*\*Image available\*\*

WPI Acc No: 1999-063377/199906

XRPX Acc No: N99-047129

**Digital audio recording apparatus for e.g. optical disc - has  
function for allocating new recording to head of existing user table of  
contents**

Patent Assignee: SONY CORP (SONY )

Inventor: YAMAGISHI Y

Number of Countries: 007 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2327292	A	19990120	GB 9815309	A	19980714	199906 B
DE 19831567	A1	19990121	DE 1031567	A	19980714	199909
JP 11039844	A	19990212	JP 97189652	A	19970715	199917
CN 1205517	A	19990120	CN 98116109	A	19980715	199922
GB 2327292	B	19990901	GB 9815309	A	19980714	199937
KR 99013855	A	19990225	KR 9828395	A	19980714	200018
US 6147949	A	20001114	US 98114794	A	19980713	200060
TW 408311	A	20001011	TW 98111069	A	19980708	200116
CN 1399273	A	20030226	CN 98116109	A	19980715	200337
			CN 2002130201	A	19980715	

Priority Applications (No Type Date): JP 97189652 A 19970715

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2327292	A		48	G11B-027/32	
DE 19831567	A1			G11B-027/28	
JP 11039844	A		12	G11B-027/00	
CN 1205517	A			G11B-027/10	
GB 2327292	B			G11B-027/32	
KR 99013855	A			G11B-027/02	
US 6147949	A			G11B-007/00	
TW 408311	A			G11B-027/28	
CN 1399273	A			G11B-027/034	Div ex application CN 98116109

Abstract (Basic): GB 2327292 A

The recording apparatus records digital audio signals on to a recording medium. The medium has a program area in which audio tracks are written and managed for display to the user in a table of contents. The recording of tracks commences on depression of the record button, and optionally, is also commenced with simultaneous depression of a 'to head' button.

Depression of the 'to head' key [st1] prompts the system to read out data from the user table of contents ( U - TOC ) from the disc [st2]. The data form the UTOC is stored in the RAM and recording started [st3]. Once recording is complete [st4] the U - TOC is edited [st5] so that the music piece is set to the head of the play order on the disc, existing track numbers are relegated one position. The U - TOC is transferred from the RAM to the UTOC [st6] region on the disc.

USE - Optical or magneto-optic disc reproduction and recording.

ADVANTAGE - Permits user to instantly access newly recorded tune on disc, giving the track priority above the remaining play order.

Dwg.10/12

Title Terms: DIGITAL; AUDIO; RECORD; APPARATUS; OPTICAL; DISC; FUNCTION;

ALLOCATE; NEW; RECORD; HEAD; EXIST; USER; TABLE; CONTENT

Derwent Class: T03; W04

International Patent Class (Main): G11B-007/00 ; G11B-027/00 ;

G11B-027/02 ; G11B-027/034 ; G11B-027/10 ; G11B-027/28 ; G11B-027/32

File Segment: EPI

16/5/29 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011552761 \*\*Image available\*\*

WPI Acc No: 1997-529242/199749

Related WPI Acc No: 1994-265583; 1997-529241

XRPX Acc No: N97-440844

Optical disc dubbing apparatus - has additional information for each musical program automatically recorded on optical disc and sent to system via digital voice signal line

Patent Assignee: KENWOOD KK (TRIR )

Inventor: HIRANUMA S

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 805443	A2	19971105	EP 93118603	A	19931118	199749 B
			EP 97111193	A	19931118	
EP 805443	B1	20040303	EP 93118603	A	19931118	200417
			EP 97111193	A	19931118	
DE 69333440	E	20040408	DE 633440	A	19931118	200425
			EP 97111193	A	19931118	

Priority Applications (No Type Date): JP 92333571 A 19921119

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 805443	A2	E	16	G11B-007/28	Div ex application EP 93118603
					Div ex patent EP 612067

Designated States (Regional): DE FR GB

EP 805443	B1	E	G11B-007/28	Div ex application EP 93118603
				Div ex patent EP 612067

Designated States (Regional): DE FR GB

DE 69333440	E	G11B-007/28	Based on patent EP 805443
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Abstract (Basic): EP 805443 A

The apparatus comprises a voice signal output terminal of a recording medium reproduction apparatus (2). The voice signal is connected to a signal input terminal of an optical disc record apparatus. A microcomputer (1) controls the recording medium reproduction apparatus and is connected via a digital communication.

line (6) to a second microcomputer (7). The second microcomputer controls the **optical disc** record apparatus. When a user designates a desired order of track numbers of musical programs to be recorded, the desired order is supplied the second microcomputer which instructs to record.

The first microcomputer reproduces each musical program from a source recording medium. The second microcomputer records a voice signal which is received from the recording medium reproduction apparatus on a target **optical disc**. The second microcomputer stores the designated track number added to each recorded musical program in a RAM. The second microcomputer records the designated track number added to each recorded musical program on a Table of contents (TOC) area of the target **optical disc**.

ADVANTAGE - Additional information of each musical program can be automatically recorded on **optical disc**. Continuously records each musical program even if unrecorded area of **optical disc** under record operation becomes absent. Assigns desired track numbers in order different from reproduced musical programs.

Dwg.1a/6

Title Terms: OPTICAL; DISC; DUBBING; APPARATUS; ADD; INFORMATION; MUSIC; PROGRAM; AUTOMATIC; RECORD; OPTICAL; DISC; SEND; SYSTEM; DIGITAL; VOICE; SIGNAL; LINE

Index Terms/Additional Words: CD ; TOC; U - TOC

Derwent Class: T01; W04

International Patent Class (Main): G11B-007/28

International Patent Class (Additional): G11B-027/034 ; G11B-027/32

File Segment: EPI

16/5/30 (Item 10 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011342102 \*\*Image available\*\*  
WPI Acc No: 1997-320007/199729  
Related WPI Acc No: 1997-291488; 1998-352833; 2002-114890  
XRAM Acc No: C97-103394  
XRPX Acc No: N97-264875

**Optical recording medium using Fabry-Perot principle - to allow deformation of partial mirror, substrate, buffer or reflective layer allowing easy tracking and cheaper substances**

Patent Assignee: AKZO NOBEL NV (ALKU); SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: DUBBELDAM G C; HUH Y J; KIM J S; MAASKANT N; MIN K S; VAN WIJK F G H; MIN G S

Number of Countries: 074 Number of Patents: 017

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9721216	A1	19970612	WO 96EP5373	A	19961128	199729 B
AU 9710975	A	19970627	AU 9710975	A	19961128	199742
NO 9802484	A	19980729	WO 96EP5373	A	19961128	199840
			NO 982484	A	19980529	
EP 868721	A1	19981007	EP 96941654	A	19961128	199844
			WO 96EP5373	A	19961128	
CZ 9801683	A3	19981216	WO 96EP5373	A	19961128	199904
			CZ 981683	A	19961128	
BR 9611679	A	19990302	BR 9611679	A	19961128	199915
			WO 96EP5373	A	19961128	
CN 1207197	A	19990203	CN 96199458	A	19961128	199924
NZ 323928	A	19990828	NZ 323928	A	19961128	199939
			WO 96EP5373	A	19961128	
EP 868721	B1	19991215	EP 96941654	A	19961128	200003
			WO 96EP5373	A	19961128	
DE 69605685	E	20000120	DE 605685	A	19961128	200011
			EP 96941654	A	19961128	
			WO 96EP5373	A	19961128	
MX 9804364	A1	19980901	MX 984364	A	19980601	200017

International Patent Class (Additional): B41M-005/26; C08L-023/00;  
C08L-069/00; **G11B-007/26**  
File Segment: CPI; EPI; EngPI

**16/5/31 (Item 11 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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011114405 \*\*Image available\*\*  
WPI Acc No: 1997-092330/199709  
XRPX Acc No: N97-076223

**Management information renewal appts for magneto- optical disk -  
updates contents of management information during failure so that erased  
data is reproduced properly**

Patent Assignee: SONY CORP (SONY )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8329659	A	19961213	JP 95155630	A	19950531	199709 B

Priority Applications (No Type Date): JP 95155630 A 19950531

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8329659	A	12	G11B-027/034	

Abstract (Basic): JP 8329659 A

The renewal appts has rewrite part which rewrites the management information on the recording medium. A rewrite controller controls the operation of the rewrite part.

First, the management information which manages recording data and recordable area is recorded. If the data is erased by failure, the renewal controller updates the contents of management information and reproduces the data.

ADVANTAGE - Provides effective reproduction of data even when incorrect erasure by write-in failure.

Dwg.3/9

Title Terms: MANAGEMENT; INFORMATION; RENEW; APPARATUS; MAGNETO; OPTICAL;  
DISC; UPDATE; CONTENT; MANAGEMENT; INFORMATION; FAIL; SO; ERASE; DATA;  
REPRODUCE; PROPER

Index Terms/Additional Words: U - TOC ; MINI; DISK; SYSTEM

Derwent Class: T03

International Patent Class (Main): **G11B-027/034**

International Patent Class (Additional): **G11B-020/12**

File Segment: EPI

**16/5/32 (Item 12 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
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010610529 \*\*Image available\*\*  
WPI Acc No: 1996-107482/199612  
XRPX Acc No: N96-089994

**Recording medium for e.g. audio programs and data files - has separate  
control regions for program and file at recordable region and physical  
head respectively**

Patent Assignee: SONY CORP (SONY )

Inventor: OHMORI T

Number of Countries: 008 Number of Patents: 016

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 697699	A2	19960221	EP 95111875	A	19950727	199612 B
AU 9527255	A	19960208	AU 9527255	A	19950728	199613
JP 8045246	A	19960216	JP 94196162	A	19940729	199617
EP 697699	A3	19960911	EP 95111875	A	19950727	199644
SG 33438	A1	19961018	SG 95983	A	19950729	199649



CN 1122938	A	19960522	CN 95115834	A	19950729	199746
US 5737290	A	19980407	US 95505749	A	19950721	199821
US 5805550	A	19980908	US 95505749	A	19950721	199843
			US 97870505	A	19970606	
AU 703859	B	19990401	AU 9527255	A	19950728	199925
CN 1380649	A	20021120	CN 95115834	A	19950729	200319
			CN 2002105504	A	19950729	
CN 1380650	A	20021120	CN 95115834	A	19950729	200319
			CN 2002105532	A	19950729	
EP 697699	B1	20031210	EP 95111875	A	19950727	200405
DE 69532261	E	20040122	DE 632261	A	19950727	200415
			EP 95111875	A	19950727	
JP 2004095167	A	20040325	JP 94196162	A	19940729	200422
			JP 2003338492	A	20030929	
JP 2004095165	A	20040325	JP 94196162	A	19940729	200422
			JP 2003338490	A	20030929	
JP 2004095166	A	20040325	JP 94196162	A	19940729	200422
			JP 2003338491	A	20030929	

Priority Applications (No Type Date): JP 94196162 A 19940729; JP 2003338490 A 20030929; JP 2003338491 A 20030929; JP 2003338492 A 20030929

Cited Patents: No-SR.Pub; EP 165320; EP 448378; EP 613144; EP 655740

#### Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
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EP 697699	A2	E	76	G11B-027/32	
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Designated States (Regional): DE FR GB

AU 9527255	A			G11B-007/007	
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JP 8045246	A		77	G11B-027/00	
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EP 697699	A3			G11B-027/32	
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SG 33438	A1			G11B-019/02	
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CN 1122938	A			G11B-005/09	
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US 5737290	A		70	G11B-003/90	
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US 5805550	A			G11B-003/90	
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Div ex application US 95505749

Div ex patent US 5737290

AU 703859	B			G11B-007/007	
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Previous Publ. patent AU 9527255

CN 1380649	A			G11B-020/10	
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Div ex application CN 95115834

CN 1380650	A			G11B-020/10	
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Div ex application CN 95115834

EP 697699	B1	E		G11B-027/32	
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Designated States (Regional): DE FR GB

DE 69532261	E			G11B-027/32	
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Based on patent EP 697699

JP 2004095167	A		65	G11B-020/12	
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Div ex application JP 94196162

JP 2004095165	A		63	G11B-020/12	
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Div ex application JP 94196162

JP 2004095166	A		65	G11B-020/12	
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Div ex application JP 94196162

#### Abstract (Basic): EP 697699 A

The recording medium has a recordable region capable of being recorded with first-type data composed of programs and second-type data composed of files. A first control region (P-TOC) controls the programs and the second-type data is recorded at the recordable region. A second control region ( U - TOC ) is provided at the physical head of a region recorded with the second-type data, for controlling the files.

Pref., the first control region is recorded with an identification signal for discriminating between the two type of data. The head of the second control region is controlled by the first control region. The first control region also controls unrecorded regions of the recordable region.

ADVANTAGE - Magnet- **optical discs** . Prevents illegal copying and is suited to use with equipment demanding compactness and low power consumption.

Dwg.23a/45

Title Terms: RECORD; MEDIUM; AUDIO; PROGRAM; DATA; FILE; SEPARATE; CONTROL; REGION; PROGRAM; FILE; RECORD; REGION; PHYSICAL; HEAD; RESPECTIVE

Derwent Class: T01; T03; W04

International Patent Class (Main): G11B-003/90 ; G11B-005/09 ;

G11B-007/007 ; G11B-019/02 ; G11B-020/10 ; G11B-020/12 ; G11B-027/00

; G11B-027/32

International Patent Class (Additional): G06F-011/30; G06F-012/14;

76

10/1504

G06F-017/40; G11B-011/10 ; G11B-017/22 ; G11B-020/00 ; G11B-020/18 ;  
G11B-023/18 ; G11B-027/034 ; G11B-027/10 ; G11B-027/34 ; H04L-012/26  
File Segment: EPI

16/5/33 (Item 13 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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010058442 \*\*Image available\*\*  
WPI Acc No: 1994-326153/199441  
Related WPI Acc No: 1998-181471  
XRPX Acc No: N94-256198

Memory control device for use in recording appts. e.g with magneto-  
optical disc - carries out identifying operation of management  
information corresp to segment located in front of or behind segment  
serving as reference of reading operation on recording medium

Patent Assignee: SONY CORP (SONY )

Inventor: MAEDA Y

Number of Countries: 006 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 621599	A2	19941026	EP 94302843	A	19940421	199441 B
EP 621599	A3	19960110	EP 94302843	A	19940421	199620
EP 621599	B1	19981118	EP 94302843	A	19940421	199850
			EP 97203641	A	19940421	
US 5829050	A	19981027	US 94230117	A	19940420	199850
			US 97822823	A	19970324	
DE 69414633	E	19981224	DE 614633	A	19940421	199906
			EP 94302843	A	19940421	
US 5870583	A	19990209	US 94230117	A	19940420	199913
			US 95560847	A	19951120	
US 5915263	A	19990622	US 94230117	A	19940420	199931
			US 95560868	A	19951120	
			US 97888305	A	19970708	
KR 296676	B	20011024	KR 948815	A	19940423	200236
JP 3353381	B2	20021203	JP 93119302	A	19930423	200281
JP 2003196962	A	20030711	JP 93119302	A	19930423	200355
			JP 2002226580	A	19930423	

Priority Applications (No Type Date): JP 93119302 A 19930423; JP 2002226580  
A 19930423

Cited Patents: No-SR.Pub; 2.Jnl.Ref; EP 275972; EP 378449; EP 399853; EP  
543446; EP 586189; JP 5189933

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 621599	A2	E	45	G11B-027/32	
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Designated States (Regional): DE FR GB

EP 621599	A3			G11B-027/32	
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EP 621599	B1	E		G11B-027/32	Related to application EP 97203641 Related to patent EP 833339
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Designated States (Regional): DE FR GB

US 5829050	A			G06F-012/02	Cont of application US 94230117
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DE 69414633	E			G11B-027/32	Based on patent EP 621599
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US 5870583	A			G06F-012/02	Div ex application US 94230117
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US 5915263	A			G06F-012/00	Div ex application US 94230117
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Cont of application US 95560868

KR 296676	B			G11B-007/00	Previous Publ. patent KR 94024703
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JP 3353381	B2	28		G06F-003/08	Previous Publ. patent JP 6309120
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JP 2003196962	A	28		G11B-027/10	Div ex application JP 93119302
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Abstract (Basic): EP 621599 A

The memory control device has a controller for outputting write-in  
and read-out addresses to the memory and for receiving and sending  
write-in and read out data to and from memory. A system controller  
control the memory controller to execute data write-in and read-out  
operation for the memory and determines a recording data segment which

serves as a reference segment for an editing operation. A memory data searching section forms a part of the memory controller for searching the management information data corresp. to a recording data segment which is located in front of or behind the reference segment on the recording medium.

The system controller transmits data to the reference segment on the recording medium, transmits a search executing instruction to the memory data searching section when the editing operation is carried out and controls the editing operation on the basis of the search result received.

ADVANTAGE - Editing operation performed reduces wasted space on medium and eliminates 'trash areas' which are not addressable in user table of contents ( U - TOC ).

Dwg.8/24

Title Terms: MEMORY; CONTROL; DEVICE; RECORD; APPARATUS; MAGNETO-OPTICAL; DISC; CARRY; IDENTIFY; OPERATE; MANAGEMENT; INFORMATION; CORRESPOND; SEGMENT; LOCATE; FRONT; SEGMENT; SERVE; REFERENCE; READ; OPERATE; RECORD; MEDIUM

Derwent Class: P86; W04

International Patent Class (Main): G06F-003/08; G06F-012/00; G06F-012/02;

G11B-007/00 ; G11B-027/10 ; G11B-027/32

International Patent Class (Additional): G06F-003/06; G10H-001/00;

G11B-011/10 ; G11B-017/22 ; G11B-020/12 ; G11B-027/00 ; G11B-027/034

File Segment: EPI; EngPI

16/5/34 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009997872 \*\*Image available\*\*

WPI Acc No: 1994-265583/199433

Related WPI Acc No: 1997-529241; 1997-529242

XRPX Acc No: N94-209018

Optical disc dubbing apparatus e.g. for mini disc - has additional information e.g program title sent via serial line to control microcomputer for storage with U - TOC information for recording on disc

Patent Assignee: KENWOOD KK (TRIR ); KENWOOD CORP (TRIR )

Inventor: HIRANUMA S

Number of Countries: 005 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 612067	A2	19940824	EP 93118603	A	19931118	199433 B
EP 612067	A3	19950118				199538
US 5521894	A	19960528	US 93153903	A	19931117	199627
			US 94271897	A	19940708	
US 5610888	A	19970311	US 93153903	A	19931117	199716
			US 94271894	A	19940708	
US 5625610	A	19970429	US 93153903	A	19931117	199723
EP 612067	B1	19990210	EP 93118603	A	19931118	199911
			EP 97111192	A	19931118	
			EP 97111193	A	19931118	
DE 69323482	E	19990325	DE 623482	A	19931118	199918
			EP 93118603	A	19931118	
JP 2000113639	A	20000421	JP 92333571	A	19921119	200031
			JP 99293448	A	19921119	
JP 3244673	B2	20020107	JP 92333571	A	19921119	200206
			JP 99293448	A	19921119	

Priority Applications (No Type Date): JP 92333571 A 19921119; JP 99293448 A 19921119

Cited Patents: 3.Jnl.Ref; EP 234709; EP 256508; JP 1302592; JP 4119551; JP 4274073

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 612067	A2	E	16	G11B-007/28	

Designated States (Regional): DE FR GB

US 5521894 A 15 G11B-007/00 Div ex application US 93153903  
US 5610888 A 14 G11B-007/00 Div ex application US 93153903  
US 5625610 A 14 G11B-007/00  
EP 612067 B1 E Related to application EP 97111192  
Related to application EP 97111193  
Related to patent EP 805442  
Related to patent EP 805443

Designated States (Regional): DE FR GB

DE 69323482 E Based on patent EP 612067  
JP 2000113639 A 7 G11B-027/00 Div ex application JP 92333571  
JP 3244673 B2 7 G11B-027/00 Div ex application JP 92333571  
Previous Publ. patent JP 2000113639

Abstract (Basic): EP 612067 A

The apparatus has a digital voice signal output terminal, for reproducing a musical program from a source **optical disc** having a TOC area storing the start and end addresses, connected to a digital signal input terminal of an **optical disc recorder** for recording each musical program and the start address, end address and additional information in a TOC area of a target **optical disc**. A microcomputer is connected via a digital communication line to a second microcomputer for controlling the **optical disc recorder**. The second microcomputer instructs the first to reproduce each musical program in a predetermined order and records a digital voice signal on the target **optical disc**. The second microcomputer stores the additional information from the first microcomputer in a RAM and records the start address, end address and additional information on a TOC area on the target **optical disc** before the target **optical disc** is dismounted from the optical recorder.

ADVANTAGE - Can continuously record each musical program even if unrecorded area becomes absent.

Dwg.1a/6

Title Terms: OPTICAL; DISC; DUBBING; APPARATUS; MINI; DISC; ADD; INFORMATION; PROGRAM; TITLE; SEND; SERIAL; LINE; CONTROL; MICROCOMPUTER; STORAGE; INFORMATION; RECORD; DISC

Derwent Class: T01; W04

International Patent Class (Main): G11B-007/00 ; G11B-007/28 ; G11B-027/00

International Patent Class (Additional): G11B-019/02 ; G11B-027/034 ; G11B-027/10 ; G11B-027/32

File Segment: EPI

16/5/35 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009787527

WPI Acc No: 1994-067380/199409

XRPX Acc No: N94-052749

**Optical recording-reproducing appts. with simplified over-write operation of recorded disc - searches for input start address recording region, if record key is depressed within certain time from numerical key input, sets pause state, and over-writes music program when pause is released**

Patent Assignee: KENWOOD KK (TRIR )

Inventor: GOTO S

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 584834	A2	19940302	EP 93113757	A	19930827	199409 B
US 5426624	A	19950620	US 93111414	A	19930825	199530
EP 584834	A3	19951102	EP 93113757	A	19930827	199617
EP 584834	B1	19990203	EP 93113757	A	19930827	199910
DE 69323366	E	19990318	DE 623366	A	19930827	199917
			EP 93113757	A	19930827	
JP 3130380	B2	20010131	JP 92253843	A	19920828	200109

Priority Applications (No Type Date): JP 92253843 A 19920828

Cited Patents: No-SR.Pub; EP 275972; EP 292917; EP 474377; EP 540164; EP 596139; WO 9324929

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
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EP 584834	A2	E	11	G11B-027/036	
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Designated States (Regional): DE FR GB

US 5426624	A		11	G11B-007/085	
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EP 584834	A3			G11B-027/036	
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EP 584834	B1	E		G11B-027/036	
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Designated States (Regional): DE FR GB

DE 69323366	E			G11B-027/036	Based on patent EP 584834
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JP 3130380	B2		6	G11B-027/10	Previous Publ. patent JP 6076549
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Abstract (Basic): EP 584834 A

The appts. comprises a recordable **optical disc** for the recording and reproduction of a music program assigned a serial program number. When a music program number is entered, and a record start is instructed, recorded music programs with the designated music program number and following numbers are linked together as recordable regions in a **U - TOC** table of the recordable **optical disc**.

A record start state or record pause state is set at the start position of the music program having the designated music program number.

ADVANTAGE - Automatically overwrites new music program in as many record areas as necessary of already recorded mini disc.

Dwg.1/10

Title Terms: OPTICAL; RECORD; REPRODUCE; APPARATUS; SIMPLIFY; WRITING; OPERATE; RECORD; DISC; SEARCH; INPUT; START; ADDRESS; RECORD; REGION; RECORD; KEY; DEPRESS; TIME; NUMERIC; KEY; INPUT; SET; PAUSE; STATE; WRITING; MUSIC; PROGRAM; PAUSE; RELEASE

Index Terms/Additional Words: MINI-DISC

Derwent Class: T03; W04

International Patent Class (Main): G11B-007/085 ; G11B-027/036 ; G11B-027/10

International Patent Class (Additional): G11B-011/10 ; G11B-019/02 ;

G11B-027/32

File Segment: EPI

Set	Items	Description
S1	180993	(COMPACT OR OPTICAL OR LASER OR DIGITAL OR HYBRID) (2W) (DISK? OR DISC?) OR VIDEODISC? OR CD OR CD()ROM OR CDROM OR DVD OR CD()R OR CD()RW OR CD OR CDROM OR CD()ROM
S2	1996	(INCOMPLETE OR PRESTORED OR NON()WORKING OR NONWORKING OR - PARTIAL OR SCRAMBLED OR IMPERFECT?) (2N) (INDEX? OR INDICES OR - PLAYLIST OR PLAY()LIST OR TOC OR TABLE()CONTENT? OR SEQUENCE - OR POINTER?)
S3	4961145	SEND? OR OUTPUT? OR TRANSFER? OR TRANSMISSION OR TRANSMIT? OR TRANSFER? OR COMMUNICATE? OR CONVEY?
S4	950639	SERVER? OR STATION OR PROCESSOR? OR HOST? OR PROVIDER? (N)R-ESOURCE? OR REPOSITOR? OR REMOTE()STORAGE OR NODE?
S5	5386189	OVERWRITE? OR OVER()WRITE? OR RECORD OR DOWNLOAD? OR RECEI-V? OR UPLOAD? (DOWN OR UP) ()LOAD? OR WRITE? OR WRITING OR COPY OR COPIES OR INPUT? OR OUTPUT? OR READ OR READING OR LOAD?
S6	4353	(PERFECT? OR COMPLET? OR ABSOLUT? OR ENTIRE? OR WHOLE) (2N) - (INDEX? OR INDICES OR PLAYLIST OR PLAY()LIST OR TOC OR TABLE(-)CONTENT? OR SEQUENCE OR POINTER?)
S7	20	S1 AND S2
S8	124	S3 AND S2 AND S4
S9	9	S8 AND S5 AND S6
S10	11	S8 AND S6
S11	26	S1 AND U()TOC
S12	13456	MD OR MUSIC()DATA
S13	1996	S13 OR S14 OR S2
S14	66	S13 AND S5 AND S6
S15	114	S7 OR S9 OR S10 OR S11 OR S14
S16	35	S15 AND IC=G11B?
S17	16	S15 AND IC=G06F?
S18	12	S17 NOT S16

File 347:JAPIO Nov 1976-2004/Jun(Updated 041004)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200465

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18/5/10 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012328721 \*\*Image available\*\*  
WPI Acc No: 1999-134828/199912  
XRAM Acc No: C99-039697  
XRPX Acc No: N99-098389

**Revealing characteristic or regularity in symbolic sequence - by  
conversion to parallel sequence of partial symbolic sequences and  
output in colour or sound form**

Patent Assignee: TOA GOSEI KK (TOAG ); TOA GOSEI CHEM IND LTD (TOAG )  
Inventor: OBATA N; OSAWA K; YOSHIDA T; OOSAWA K  
Number of Countries: 027 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 898236	A2	19990224	EP 98115643	A	19980819	199912 B
JP 11066040	A	19990309	JP 97223908	A	19970820	199920
US 6438496	B1	20020820	US 98137162	A	19980820	200257
US 20020172971	A1	20021121	US 98137162	A	19980820	200279
			US 2002137402	A	20020503	

Priority Applications (No Type Date): JP 97223908 A 19970820

**Patent Details:**

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 898236	A2	E	31	G06F-017/30	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 11066040	A		10	G06F-017/10	
US 6438496	B1			G01N-033/48	
US 20020172971	A1			C12Q-001/68	Div ex application US 98137162

**Abstract (Basic): EP 898236 A**

A characteristic in a symbolic sequence  $I_j$  ( $j = 1-m$ ) is revealed by conversion to a parallel sequence  $A(k)$  of partial symbolic sequences in which the suffix 'j' is aligned in a specific positional relation and **output** of the sequence  $A(k)$  in colour hue, lightness and/or saturation and/or sound interval, tone and/or volume form. The positional relation of suffix 'j' is  $j = 1, 2, \dots, k-1, k, j = k+1, \dots, k+k-1, k+k : : j = (n-1)k+1, (n-1)k+2, \dots, (n-1)k+k-1, (n-1)k+k, j = nk+1, nk+2, \dots, nk+k-1, nk+k$  or  $j = 1, 2, \dots, k-1, k, j = k+k, k+k-1, \dots, k+2, k+1 : : j = (n-1)k+k, (n-1)k+k-1, \dots, (n-1)k+2, (n-1)k+1, j = nk+1, nk+2, \dots, nk+k-1, nk+k$ ; where  $k$  is an integer of 2 or more,  $n$  is an integer such that  $nk$  is less than  $m$  and less than or equal to  $nk+k$  and, when  $j$  is greater than or equal to  $m+1$ , the processing is ignored. Also claimed is a similar method which involves: (i) carrying out the above conversion using the same positional relation of suffix 'j'; followed by (ii) creation of whole parallel sequences  $\Sigma A(k)$  by further parallel positioning of parallel sequences  $A(p), A(p+r), A(p+2r), \dots$  (converted by replacing  $k$  by  $p, p+r, p+2r, \dots$ ), where  $p$  is a natural number from 2 to less than  $m$  and  $r$  is any natural number; and (iii) **output** of the whole parallel sequences. Further claimed are apparatus for carrying out the above methods.

USE - For revealing an unrecognizable latent characteristic or regularity within a complicated symbolic sequence, such as a DNA nucleotide sequence, a protein amino acid sequence, a decimal expansion sequence of an irrational number or the like.

ADVANTAGE - The methods reveal a characteristic or regularity irrespective of its existence in only a portion or the entirety of the **whole sequence**, the characteristic or regularity being **output** in an easily recognised form.

Dwg.2/18

Title Terms: REVEAL; CHARACTERISTIC; REGULAR; SYMBOL; SEQUENCE; CONVERT;  
PARALLEL; SEQUENCE; SYMBOL; SEQUENCE; **OUTPUT**; COLOUR; SOUND; FORM  
Derwent Class: B04; D16; T01  
International Patent Class (Main): C12Q-001/68; G01N-033/48; **G06F-017/10** ;  
**G06F-017/30**

International Patent Class (Additional): G06F-007/38 ; G06F-017/00 ;  
G06F-019/00 ; G06T-007/00  
File Segment: CPI; EPI



Set	Items	Description
S1	587461	(COMPACT OR OPTICAL OR LASER OR DIGITAL OR HYBRID) (2W) (DISK? OR DISC?) OR VIDEODISC? OR CD OR CD()ROM OR CDROM OR DVD OR CD()R OR CD()RW OR CD OR CDROM OR CD()ROM
S2	10871	(INCOMPLETE OR PRESTORED OR NON()WORKING OR NONWORKING OR PARTIAL OR SCRAMBLED OR IMPERFECT?) (2N) (INDEX? OR INDICES OR PLAYLIST OR PLAY()LIST OR TOC OR TABLE()CONTENT? OR SEQUENCE OR POINTER?)
S3	6169805	SEND? OR OUTPUT? OR TRANSFER? OR TRANSMISSION OR TRANSMIT? OR TRANSFER? OR COMMUNICATE? OR CONVEY?
S4	2448403	SERVER? OR STATION OR PROCESSOR? OR HOST? OR PROVIDER?(N)RESOURCE? OR REPOSITOR? OR REMOTE()STORAGE OR NODE?
S5	6227187	OVERWRITE? OR OVER()WRITE? OR RECORD OR DOWNLOAD? OR RECEIVE? OR UPLOAD? (DOWN OR UP)()LOAD? OR WRITE? OR WRITING OR COPY OR COPIES OR INPUT? OR OUTPUT? OR READ OR READING OR LOAD?
S6	41681	(PERFECT? OR COMPLET? OR ABSOLUT? OR ENTIRE? OR WHOLE) (2N) (INDEX? OR INDICES OR PLAYLIST OR PLAY()LIST OR TOC OR TABLE()CONTENT? OR SEQUENCE OR POINTER?)
S7	32	S1 (S) S2
S8	37	S3 (S) S2 (S) S4
S9	1	S8 (S) S5 (S) S6
S10	2	S8 AND S6
S11	0	S1 AND U()TOC
S12	88421	MD OR MUSIC()DATA
S13	0	S12 (S) U()TOC
S14	1	S7 (S) S8
S15	68	S7 OR S8 OR S9 OR S10 OR S14
S16	41	S15 NOT PY>1999
S17	37	S16 NOT PD>19990519
S18	26	RD (unique items)
File	2:INSPEC 1969-2004/Oct W1	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Oct W1	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2004/Oct W1	(c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Oct W1	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/Sep	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Oct W2	(c) 2004 BLDSC all rts. reserv.
File	92:IHS Intl.Stds.& Specs. 1999/Nov	(c) 1999 Information Handling Services
File	94:JICST-EPlus 1985-2004/Sep W2	(c)2004 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Sep	(c) 2004 The HW Wilson Co.
File	103:Energy SciTec 1974-2004/Sep B2	(c) 2004 Contains copyrighted material
File	144:Pascal 1973-2004/Oct W1	(c) 2004 INIST/CNRS
File	202:Info. Sci. & Tech. Abs. 1966-2004/Sep 09	(c) 2004 EBSCO Publishing
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	(c) 2003 EBSCO Pub.
File	239:Mathsci 1940-2004/Nov	(c) 2004 American Mathematical Society
File	275:Gale Group Computer DB(TM) 1983-2004/Oct 13	(c) 2004 The Gale Group
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	647:CMP Computer Fulltext 1988-2004/Oct W1	(c) 2004 CMP Media, LLC
File	674:Computer News Fulltext 1989-2004/Sep W1	

(c) 2004 IDG Communications  
File 696:DIALOG Telecom. Newsletters 1995-2004/Oct 12  
(c) 2004 The Dialog Corp.

18/5/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5830863 INSPEC Abstract Number: B9803-6140C-475, C9803-5260B-285

**Title: Partial video sequence caching scheme for VOD systems with heterogeneous clients**

Author(s): Chiu, M.Y.M.; Yeung, K.-H.A.

Author Affiliation: City Univ. of Hong Kong, Hong Kong

Journal: IEEE Transactions on Industrial Electronics vol.45, no.1

p.44-51

Publisher: IEEE,

Publication Date: Feb. 1998 Country of Publication: USA

CODEN: ITIED6 ISSN: 0278-0046

SICI: 0278-0046(199802)45:1L:44:PVSC;1-O

Material Identity Number: C573-98001

U.S. Copyright Clearance Center Code: 0278-0046/98/\$10.00

Document Number: S0278-0046(98)00412-2

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P); Theoretical (T)

**Abstract:** Video on demand (VOD) is one of the key applications in the information era. A hinge factor to its widespread use is the huge bandwidth required to **transmit** digitized video to a large group of clients with widely varying requirements. This paper addresses issues of heterogeneous clients by proposing a program caching scheme called the **partial video sequence** (PVS) caching scheme. The PVS caching scheme decomposes video sequences into a number of parts by using a scalable video compression algorithm. Video parts are selected to be cached in local video **servers** based on the amount of bandwidth that would be demanded from the distribution network and central video **server** if it was only kept in the central video **server**. We also show that the PVS caching scheme is suitable for handling vastly varying client requirements. (7 Refs)

Subfile: B C

Descriptors: cache storage; data compression; image sequences; interactive video; multimedia communication; multimedia computing; network servers; video coding; video equipment

Identifiers: partial video sequence caching; VOD systems; heterogeneous clients; video on demand; bandwidth; digital video transmission; program caching scheme; scalable video compression algorithm; video parts; local video servers; distribution network; central video server

Class Codes: B6140C (Optical information, image and video signal processing); B6430H (Video recording); B6120B (Codes); B6210R (Multimedia communications); C5260B (Computer vision and image processing techniques); C6130M (Multimedia); C5630 (Networking equipment)

Copyright 1998, IEE

18/5/3 (Item 3 from file: 2)  
DIALOG(R)File 2:INSPEC  
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5566870 INSPEC Abstract Number: B9706-6430-001, C9706-5260B-111

**Title: Partial video sequence caching scheme for VOD systems with heterogeneous clients**

Author(s): Chiu, Y.M.; Yeung, K.H.

Author Affiliation: City Univ. of Hong Kong, Hong Kong

Conference Title: Proceedings. 13th International Conference on Data Engineering (Cat. No.97CB36038) p.323-32

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA xvii+592 pp.

ISBN: 0 8186 7807 0 Material Identity Number: XX97-00832

U.S. Copyright Clearance Center Code: 1063-6382/97/\$10.00

Conference Title: Proceedings 13th International Conference on Data Engineering

Conference Sponsor: IEEE Comput. Soc

Conference Date: 7-11 April 1997 Conference Location: Birmingham, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Video on Demand is one of the key application in the information era. A hinge factor to its wide booming is the huge bandwidth required to **transmit** digitized video to a large group of clients with widely varying requirements. This paper addresses issues due to heterogeneous clients by proposing a program caching scheme called **Partial Video Sequence** (PVS) Caching Scheme. PVS Caching Scheme decomposes video sequences into a number of parts by using a scalable video compression algorithm. Video parts are selected to be cached in local video **servers** based on the amount of bandwidth it would be demanded from the distribution network and central video **server** if it is only kept in central video **server**. In this paper, we also show that PVS Caching Scheme is suitable for handling vastly varying client requirements. (7 Refs)

Subfile: B C

Descriptors: data compression; image sequences; interactive television; video coding

Identifiers: partial video sequence caching scheme; VOD systems; heterogeneous clients; video on demand system; video sequences; scalable video compression algorithm

Class Codes: B6430 (Television equipment, systems and applications); B6120B (Codes); B6140C (Optical information, image and video signal processing); C5260B (Computer vision and image processing techniques); C1250 (Pattern recognition)

Copyright 1997, IEE

18/5/21 (Item 2 from file: 144)

DIALOG(R) File 144:Pascal

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13461820 PASCAL No.: 98-0158085

**Partial video sequence caching scheme for VOD systems with heterogeneous clients : Special section on multimedia and communication**

CHIU M Y M; YEUNG K H A

City University of Hong Kong, Yau Yat Chuen, Hong Kong

Journal: IEEE transactions on industrial electronics : (1982), 1998, 45 (1) 44-51

ISSN: 0278-0046 CODEN: ITIED6 Availability: INIST-222F8; 354000078315560060

No. of Refs.: 7 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

Video on demand (VOD) is one of the key applications in the information era. A hinge factor to its widespread use is the huge bandwidth required to **transmit** digitized video to a large group of clients with widely varying requirements. This paper addresses issues of heterogeneous clients by proposing a program caching scheme called the partial video sequence (PVS) caching scheme. The PVS caching scheme decomposes video sequences into a number of parts by using a scalable video compression algorithm. Video parts are selected to be cached in local video **servers** based on the amount of bandwidth that would be demanded from the distribution network and central video **server** if it was only kept in the central video **server**. In this paper, we also show that the PVS caching scheme is suitable for handling vastly varying client requirements.

English Descriptors: Video on demand; Image transmission; Information retrieval; Multimedia; Signal compression; Video signal; Distributed processing; Decomposition method

French Descriptors: Video a la demande; Transmission image; Recherche information; Multimedia; Compression signal; Signal video; Traitement reparti; Methode decomposition

Classification Codes: 001D04A05C; 001D04B03B

18/5/25 (Item 2 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

01385605 SUPPLIER NUMBER: 09683355 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Providing software protection capability or a CD-ROM drive. (technical)**

Nielsen, Kenneth R.

Hewlett-Packard Journal, v41, n6, p49(5)

Dec, 1990

DOCUMENT TYPE: technical ISSN: 0018-1153 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4223 LINE COUNT: 00313

ABSTRACT: A CD-ROM can hold many large software packages on one disk, which can provide significant cost savings over tape distribution but poses a security problem. Load-time security, which permits customers to load a package from the disk only with proper authority, is the method used for the Hewlett-Packard Model 600/A. It satisfies the constraints of running on existing systems that do not have a way to identify themselves and protecting software that cannot be modified easily to use run-time security. Another method used on the 600/A is scrambling data on the disk to prevent reading a protected disk with another CD-ROM reader. A security toolbox can be used by the customer. The tools include the capability to lock and unlock discrete portions of the disk selectively, unscramble or decode secured data, and the ability to give the host a unique identifier. CAPTIONS: Organization of groups, regions, and logical sectors. (chart); Process for determining the locked and unlocked areas of a disk. (chart); Steering unscrambled data in and around the Model 600/A's unscrambler. (chart)

SPECIAL FEATURES: illustration; chart

COMPANY NAMES: Hewlett-Packard Co.--Products

DESCRIPTORS: Security; Software; CD-ROM

SIC CODES: 3652 Prerecorded records and tapes

TICKER SYMBOLS: HWP

TRADE NAMES: HP 6100 600/A (CD-ROM drive)--Design and construction

FILE SEGMENT: CD File 275

18/5,K/25 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01385605 SUPPLIER NUMBER: 09683355 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Providing software protection capability or a CD-ROM drive. (technical)**  
Nielsen, Kenneth R.  
Hewlett-Packard Journal, v41, n6, p49(5)  
Dec, 1990  
DOCUMENT TYPE: technical ISSN: 0018-1153 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4223 LINE COUNT: 00313

ABSTRACT: A CD-ROM can hold many large software packages on one disk, which can provide significant cost savings over tape distribution but poses a security problem. Load-time security, which permits customers to load a package from the disk only with proper authority, is the method used for the Hewlett-Packard Model 600/A. It satisfies the constraints of running on existing systems that do not have a way to identify themselves and protecting software that cannot be modified easily to use run-time security. Another method used on the 600/A is scrambling data on the disk to prevent reading a protected disk with another CD-ROM reader. A security toolbox can be used by the customer. The tools include the capability to lock and unlock discrete portions of the disk selectively, unscramble or decode secured data, and the ability to give the host a unique identifier. CAPTIONS: Organization of groups, regions, and logical sectors. (chart); Process for determining the locked and unlocked areas of a disk. (chart); Steering unscrambled data in and around the Model 600/A's unscrambler. (chart)

SPECIAL FEATURES: illustration; chart  
COMPANY NAMES: Hewlett-Packard Co.--Products  
DESCRIPTORS: Security; Software; CD-ROM  
SIC CODES: 3652 Prerecorded records and tapes  
TICKER SYMBOLS: HWP  
TRADE NAMES: HP 6100 600/A (CD-ROM drive)--Design and construction  
FILE SEGMENT: CD File 275

... see Fig. 4 switch position 3).

To use the Model 600/A as an unscrambling box the **host** reads a complete scrambled file from the disk and then **sends** a customer-unique deciphering key to the **CD - ROM** drive. The **host**'s unscrambling algorithm is a write, unscramble, and read **sequence**. First the **scrambled** file is written to the data buffer on the Model 600/A's controller using the CS...

...Write Buffer (see Fig. 4 switch position 4). Next, using the CS-80 command Unscramble Buffer the **host** commands the controller to unscramble the data in the buffer using the deciphering key passed down earlier (see Fig. 4 switch position 1). Finally, the **host** uses the CS-80 command Read Buffer to **transfer** the unscrambled contents of the controller's data buffer to **host** memory.

Unique identifier

If a customer wants to implement run-time security, the Model 600/A has...

Set	Items	Description
S1	155	AU='ARAMAKI J' OR AU='ARAMAKI JUNICHI':AU='ARAMAKI JUNICHI SONY CORPORATION'
S2	11	AU='YODO F':AU='YODO FUMITAKE SONY CORPORATION'
S3	4	S1 AND S2

File 347:JAPIO Nov 1976-2004/Jun(Updated 041004)  
(c) 2004 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2004/Oct W01  
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041007,UT=20040930  
(c) 2004 WIPO/Univentio

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200465, . . . . .  
(c) 2004 Thomson Derwent

3/5/1 (Item 1 from file: 347)  
DIALOG(R) File 347:JAPIO  
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06387204 \*\*Image available\*\*  
TERMINAL DEVICE AND REPRODUCTION METHOD

PUB. NO.: 11-328851 [JP 11328851 A]  
PUBLISHED: November 30, 1999 (19991130)  
INVENTOR(s): YODO FUMITAKE  
ARAMAKI JUNICHI  
APPLICANT(s): SONY CORP  
APPL. NO.: 10-136472 [JP 98136472]  
FILED: May 19, 1998 (19980519)  
INTL CLASS: G11B-020/10; G11B-019/04

#### ABSTRACT

PROBLEM TO BE SOLVED: To shorten a data transmission time and to enable smooth accounting by transmitting an authentication signal to an information center and reproducing the program recorded at a recording medium after the permission signal as a result of the authentication made on the information center side is received.

SOLUTION: A user terminal 52 sends the data of TOC of a disk 51 inserted into an MD recording/reproducing device 53 to a server 55 making communication via a communication network 54. The user terminal 52 displays the number of music, music order, music name, etc., of the disk 51 sent by the server 55 according to the management number in the data, selects the music data and sends the data to the server 55. The server 55 forms the U-TOC data which enables the reproduction of the music data and sends the data to the user terminal 52. The user terminal 52 is able to reproduce the musical piece desired to purchase by using this data. As a result, the downloading of the music data at a high speed is made possible and the smooth execution of the accounting is made possible. The prevention of illicit use is made possible.

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3/5/2 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01111485  
RECORDING/REPRODUCING APPARATUS, DATA REPRODUCING METHOD, AND DATA  
RECORDING / REPRODUCING METHOD  
AUFZEICHNUNG-ZURWIEDERGABEGERAT, VERFAHREN ZUR WIEDERGABE VON DATEN, UND  
VERFAHREN ZUR AUFZEICHNUNG/WIEDERGABE VON DATEN  
APPAREIL D'ENREGISTREMENT / REPRODUCTION, PROCEDE DE REPRODUCTION DE  
DONNEES ET PROCEDE D'ENREGISTREMENT/REPRODUCTION DE DONNEES  
PATENT ASSIGNEE:

Sony Corporation, (214028), 7-35, Kitashinagawa 6-chome, Shinagawa-ku,  
Tokyo 141-0001, (JP), (Applicant designated States: all)

INVENTOR:

YODO, Fumitake, Sony Corporation, 7-35, Kitashinagawa 6-chome,  
Shinagawa-ku, Tokyo 141-0001, (JP)

ARAMAKI, Junichi, Sony Corporation, 7-35, Kitashinagawa 6-chome,  
Shinagawa-ku, Tokyo 141-0001, (JP)

LEGAL REPRESENTATIVE:

Ayers, Martyn Lewis Stanley et al (42851), J.A. KEMP & CO. 14 South  
Square Gray's Inn, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 1030301 A1 000823 (Basic)  
WO 9960569 991125

APPLICATION (CC, No, Date): EP 99921169 990519; WO 99JP2602 990519

PRIORITY (CC, No, Date): JP 98136472 980519

DESIGNATED STATES: DE; FR; GB



ABSTRACT EP 1030301 A1

Music data and incomplete list data or disk reproduction inhibit signal are recorded on a disk so as to inhibit reproduction of the music data. To reproduce the music data, the incomplete list data is rewritten to the complete list data or a permit signal is sent through communication. It is unnecessary to directly send music data, so that the data transfer time is short, the music data can be downloaded quickly, the charging is smooth, and illegal use is prevented.

ABSTRACT WORD COUNT: 82

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000823 A1 Published application with search report  
Application: 20000119 A1 International application.. (Art. 158(1))  
Change: 020724 A1 International Patent Classification changed:  
20020603  
Change: 020724 A1 International Patent Classification changed:  
20020603  
Search Report: 020724 A1 Date of drawing up and dispatch of  
supplementary:search report 20020607  
Examination: 000823 A1 Date of request for examination: 20000117  
Application: 20000119 A1 International application entering European  
phase

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200034	2128
SPEC A	(English)	200034	11434
Total word count - document A			13562
Total word count - document B			0
Total word count - documents A + B			13562

3/5/3 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00529217 \*\*Image available\*\*

RECORDING/REPRODUCING APPARATUS, DATA REPRODUCING METHOD, AND DATA  
RECORDING / REPRODUCING METHOD

APPAREIL D'ENREGISTREMENT / REPRODUCTION, PROCEDE DE REPRODUCTION DE  
DONNEES ET PROCEDE D'ENREGISTREMENT/REPRODUCTION DE DONNEES

Patent Applicant/Assignee:

SONY CORPORATION,  
YODO Fumitake,  
ARAMAKI Junichi,

Inventor(s):

YODO Fumitake ,  
ARAMAKI Junichi

Patent and Priority Information (Country, Number, Date):

Patent: WO 9960569 A1 19991125  
Application: WO 99JP2602 19990519 (PCT/WO JP9902602)  
Priority Application: JP 98136472 19980519

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CN IN KR US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G11B-020/10

Publication Language: Japanese

English Abstract

Music data and incomplete list data or disk reproduction inhibit signal are recorded on a disk so as to inhibit reproduction of the music data. To reproduce the music data, the incomplete list data is rewritten to the

\*complete list data or a permit signal is sent through communication. It is unnecessary to directly send music data, so that the data transfer time is short, the music data can be downloaded quickly, the charging is smooth, and illegal use is prevented.

#### French Abstract

Des donnees de musique et des donnees de liste incomplete ou un signal d'interdiction de reproduction de disque sont enregistres sur un disque de facon a interdire la reproduction de donnees de musique. Pour reproduire le donnees de musique, le donnees de liste incomplete sont reecrites dans les donnees de liste complete ou un signal d'autorisation est envoye au travers de la communication. Il est superflu d'envoyer directement les donnees de musique, si bien que le temps de transfert des donnees est court, les donnees de musique peuvent etre rapidement telechargees, le chargement se fait en douceur, et l'utilisation illicite est rendue impossible.

3/5/4 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012908538 \*\*Image available\*\*

WPI Acc No: 2000-080374/200007

XRPX Acc No: N00-063639

**Program reproduction authentication unit for music delivery system - approves and enables reproduction of program currently recorded to recording medium, based on authentication signal sent to information center**

Patent Assignee: SONY CORP (SONY )

Inventor: ARAMAKI J ; YODO F

Number of Countries: 023 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11328851	A	19991130	JP 98136472	A	19980519	200007 B
WO 9960569	A1	19991125	WO 99JP2602	A	19990519	200007
EP 1030301	A1	20000823	EP 99921169	A	19990519	200041
			WO 99JP2602	A	19990519	
CN 1274460	A	20001122	CN 99801176	A	19990519	200116
KR 2001021828	A	20010315	KR 2000700392	A	20000113	200159

Priority Applications (No Type Date) JP 98136472 A 19980519

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 11328851	A	15	G11B-020/10		
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WO 9960569	A1	J	G11B-020/10		
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Designated States (National): CN IN KR US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

EP 1030301	A1	E	G11B-020/10	Based on patent WO 9960569	
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Designated States (Regional): DE FR GB

CN 1274460	A		G11B-020/10		
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KR 2001021828	A		G11B-020/10		
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Abstract (Basic): JP 11328851 A

NOVELTY - A transmitter transmits authentication signal to an information center via a communication network. A receiver receives the enable signal and approves and enables reproduction of program currently recorded to a recording medium, based on authentication signal. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for reproduction procedure.

USE - For music delivery system.

ADVANTAGE - Signal which prohibits reproduction and regeneration of a disc is canceled, thus data transfer time is shortened. Enables to download music data at high speed and account process can be performed smoothly. Inaccurate usage can be prevented reliably. DESCRIPTION OF DRAWING(S) - The figure shows music delivery system.

Dwg.2/16

Title Terms: PROGRAM; REPRODUCE; AUTHENTICITY; UNIT; MUSIC; DELIVER; SYSTEM  
; ENABLE; REPRODUCE; PROGRAM; CURRENT; RECORD; RECORD; MEDIUM; BASED;  
AUTHENTICITY; SIGNAL; SEND; INFORMATION

Derwent Class: T03; W02

International Patent Class (Main): G11B-020/10

International Patent Class (Additional): G11B-019/04

File Segment: EPI